

GenCore version 5.1.6  
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## OM protein - protein search, using SW model

Run on: March 24, 2004, 22:29:26 ; Search time 22 Seconds  
(without alignments)

734.497 Million cell updates/sec

Title: US-09-900-038A-1

Perfect score: 1590  
Sequence: 1 MNYSIIMSXYNEPLNVRDS.....LINDINILVLKLFGEKQSD 313

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 389414 seqs, 51625971 residues

Total number of hits satisfying chosen parameters: 389414

Minimum DB seq length: 0  
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%  
Maximum Match 100%

Listing first 45 summaries

Database :  
1: /cgn2\_6/ptodata/2/1aa/5A\_COMB.pep.\*  
2: /cgn2\_6/ptodata/2/1aa/5B\_COMB.pep.\*  
3: /cgn2\_6/ptodata/2/1aa/6A\_COMB.pep.\*  
4: /cgn2\_6/ptodata/2/1aa/6B\_COMB.pep.\*  
5: /cgn2\_6/ptodata/2/1aa/PCTUS\_COMB.pep.\*  
6: /cgn2\_6/ptodata/2/1aa/backfilled.pep.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

## SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	234	14.7	301	US-09-495-406-15	Sequence 15, Appl
2	216	13.6	534	US-09-134-000C-5087	Sequence 5087, Ap
3	214.5	13.5	1056	US-09-134-000C-5086	Sequence 5086, Ap
4	210.5	13.2	348	US-08-312-387B-3	Sequence 3, Appl
5	210.5	13.2	348	US-08-312-387B-11	Sequence 11, Appl
6	210.5	13.2	348	US-08-683-426-3	Sequence 3, Appl
7	210.5	13.2	348	US-08-683-426-11	Sequence 11, Appl
8	210.5	13.2	348	US-08-683-458-3	Sequence 3, Appl
9	210.5	13.2	348	US-08-683-458-11	Sequence 11, Appl
10	210.5	13.2	348	US-08-878-360-3	Sequence 3, Appl
11	210.5	13.2	348	US-08-878-360-11	Sequence 11, Appl
12	210.5	13.2	348	US-08-478-140B-3	Sequence 3, Appl
13	210.5	13.2	348	US-08-478-140B-8	Sequence 8, Appl
14	210.5	13.2	348	US-09-333-412-3	Sequence 3, Appl
15	210.5	13.2	348	US-09-333-412-11	Sequence 11, Appl
16	210.5	13.2	348	US-09-338-943-3	Sequence 3, Appl
17	210.5	13.2	348	US-09-338-943-8	Sequence 8, Appl
18	208	13.1	301	US-09-252-991A-33096	Sequence 33096, A
19	200	12.6	270	US-09-495-406-25	Sequence 25, Appl
20	199	12.5	416	US-09-489-039A-8195	Sequence 8195, Ap
21	190.5	12.0	333	US-09-107-532A-5123	Sequence 5123, Ap
22	187.5	11.8	277	US-09-107-532A-7213	Sequence 7213, Ap
23	186.5	11.7	327	US-09-107-532A-6181	Sequence 6181, Ap
24	184	11.6	303	US-09-495-406-17	Sequence 17, Appl
25	176.5	11.1	337	US-08-312-387B-5	Sequence 5, Appl
26	176.5	11.1	337	US-08-312-387B-12	Sequence 12, Appl
27	176.5	11.1	337	US-08-683-426-5	Sequence 5, Appl

28	176.5	11.1	337	1	US-08-683-426-12	Sequence 12, Appl
29	176.5	11.1	337	1	US-08-683-458-5	Sequence 5, Appl
30	176.5	11.1	337	1	US-08-683-458-12	Sequence 12, Appl
31	176.5	11.1	337	2	US-08-878-360-5	Sequence 5, Appl
32	176.5	11.1	337	2	US-08-878-360-12	Sequence 12, Appl
33	176.5	11.1	337	3	US-08-478-140B-5	Sequence 5, Appl
34	176.5	11.1	337	3	US-09-333-412-5	Sequence 5, Appl
35	176.5	11.1	337	4	US-09-333-412-12	Sequence 12, Appl
36	176.5	11.1	337	4	US-09-338-943-5	Sequence 5, Appl
37	171.5	10.8	721	4	US-09-107-532A-6889	Sequence 6889, Ap
38	168	10.6	702	4	US-09-437-277-1	Sequence 1, Appl
39	165	10.4	248	4	US-09-107-532A-4568	Sequence 4568, Ap
40	165	10.4	965	4	US-09-437-277-3	Sequence 3, Appl
41	161	10.1	324	1	US-08-597-226-10	Sequence 10, Appl
42	161	10.1	324	1	US-08-746-682A-10	Sequence 10, Appl
43	160.5	10.1	303	4	US-09-252-991A-29155	Sequence 29155, A
44	160	10.1	281	3	US-08-961-083-196	Sequence 196, App
45	160	10.1	281	4	US-09-536-784-196	Sequence 196, App

## ALIGNMENTS

RESULT 1						
US-09-495-406-15						
Sequence 15, Application US/09495406						
Patent No. 6503744						
GENERAL INFORMATION:						
APPLICANT: Gilbert, Michel						
APPLICANT: Wakarchuk, Warren W.						
TITLE OF INVENTION: National Research Council of Canada						
TITLE OF INVENTION: Campylobacter Glycosyltransferases for Biosynthesis of						
FILE REFERENCE: 019633-000110US						
CURRENT APPLICATION NUMBER: US/09/495,406						
CURRENT FILING DATE: 2000-01-31						
PRIOR APPLICATION NUMBER: US 60/118,213						
PRIOR FILING DATE: 1999-02-01						
NUMBER OF SEQ ID NOS: 35						
SOFTWARE: Patentn Ver. 2.1						
SEQ ID NO 15						
LENGTH: 301						
TYPE: PRT						
ORGANISM: Campylobacter jejuni						
US-09-495-406-15						
Query Match						
Best Local Similarity 28.2%; Pred. No. 1.3e-13;						
Matches 88; Conservative 53; Mismatches 135; Indels 36; Gaps 13;						
QY	4	SIIMSYNEPLNVRDSVESINQTLTDFEFITVIDNPSRGDKQFLREYSVVDNRKLT	63			
DB	5	SILPLFYNE-QYIARAIBSCINQTFKQIE-IIVDDCGDINSINIAKEYSKDKRIKII	62			
QY	64	LNENEGGLASLNKVKVKSKEVIFPMDDADISYSPRDKQIRFMBENGLDSATLIEI	123			
DB	63	HNEKNGLRPARVEGVKANSPIYIMFPDDYLEINACECKIKIDBDQ-EVDLYFNNI	121			
QY	124	DQKGLVYKORSNK-IYVINDIRKMLNRSIIAHPW-CYKGVFDKMGVRLVPE	180			
DB	122	VESNVISYKFPNSGFYSKEFEVKIIRKQLYTMWKILRKLYLEA-----	171			
QY	181	DYDFARGLAPFKIGLKLKLLQRLKNGSQQNKFKQYYSALIOFYEKSYIDT	240			
DB	172	--FAELREKVKIKIMADVLLYPM---ISQAKIA-YMGNLVHYVNNNSICNT	222			
QY	241	K---ITNYFOEVIKRYTQOE--LSKYFEKSPSIR-KLYICLYKSPVRL	293			
DB	223	KNEVLAKNNIQELQVLNLRQNYILNKYC---SVLYVLIKILVLIQYIKIRKLMVTL	279			
QY	294	LINDINILVLK 305				
DB	280	LAK-INILTLKI 290				

RESULT 2  
US-09-134-000C-5087  
Sequence 5087, Application US/09134000C  
Patent No. 6617156  
GENERAL INFORMATION:  
APPLICANT: Lynn Doucette-Stamm et al  
TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO  
FILE REFERENCE: 032796-032  
CURRENT APPLICATION NUMBER: US/09/134,000C  
CURRENT FILING DATE: 1998-08-13  
PRIOR APPLICATION NUMBER: US 60/055,778  
PRIOR FILING DATE: 1997-08-15  
NUMBER OF SEQ ID NOS: 6812  
SOFTWARE: PatentIn version 3.1  
SEQ ID NO 5087  
LENGTH: 534  
TYPE: PRT  
ORGANISM: Enterococcus faecalis  
US-09-134-000C-5087

Query Match 13.6%; Score 216; DB 4; Length 534;  
Best Local Similarity 23.3%; Pred. No. 1.3e-11;  
Matches 79; Conservative 64; Mismatches 138; Indels 58; Gaps 10;

QY 4 SIMSVNPEPLNYVDVSESLNQTLDPEFIIVDNPSSRGDLKQFLTEYSVVDNRKIL 63  
DB 196 SIAMPVYVVEEKWRLCLDSTILNQYTNWELCMADSDPBNVKILTEYQOLDERIRV 255  
QY 64 LNEENIGLASSLNKAVKISKGEYIFRMDADDISYPSRFDQIRPWE-ENSLDPSATLIEL 122  
DB 256 FRENGHISEATNSALATGDFIAMDDELAPQALYEYVVKALNTDPTIDPLYTDEDX 315  
QY 123 IDQGNLYVKQESNKYILNDIRKMLNSILAHPTVCYKKYFDKLMGRDLY-PVED 181  
DB 316 IDMDGN-----RSDPAFKPDPMSDDLGLGTYISH-LGVYRSILIEIGGFRKGYEGSQD 368  
QY 182 YDPAIRGALADPK--IGLNLKVLQVRLNENGISQTNKFKQYISA----- 225  
DB 369 YDLVLRTEKTKRIKIPKLVLYWKLPSTSTAVDQSGKGYAFEGALAVDALVRGI 428  
QY 226 -----ILDPYK-----SYIDITKITYFOEYVTKKRYQELS 261  
DB 429 NGATHGANGLYVYVDISEKLVSIILPTKNGYKDVQRCVSIIE---KTYQNYEI- 484  
QY 262 KYFELKSPSTITIRKLYICLYLFKSPLVVRLINDINI 300  
DB 485 ----IMADNGSTDPKMAE-LYAEFEQQLPGRFFVESIDI 518

RESULT 3  
US-09-134-000C-5086  
Sequence 5086, Application US/09134000C  
Patent No. 6617156  
GENERAL INFORMATION:  
APPLICANT: Lynn Doucette-Stamm et al  
TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO  
FILE REFERENCE: 032796-032  
CURRENT APPLICATION NUMBER: US/09/134,000C  
CURRENT FILING DATE: 1998-08-13  
PRIOR APPLICATION NUMBER: US 60/055,778  
PRIOR FILING DATE: 1997-08-15  
NUMBER OF SEQ ID NOS: 6812  
SOFTWARE: PatentIn version 3.1  
SEQ ID NO 5086  
LENGTH: 1056  
TYPE: PRT  
ORGANISM: Enterococcus faecalis  
US-09-134-000C-5086

Query Match 13.5%; Score 214.5; DB 4; Length 1056;  
Best Local Similarity 23.1%; Pred. No. 4.8e-11;  
Matches 69; Conservative 58; Mismatches 131; Indels 41; Gaps 6;

QY 4 SIMSVNPEPLNYVDVSESLNQTLDPEFIIVDNPSSRGDLKQFLTEYSVVDNRKIL 63  
DB 566 SVAPVYVVEEKWRLCLDSTILNQYTNWELCMADSDPBNVKILTEYQOLDERIRV 625  
QY 64 LNEENIGLASSLNKAVKISKGEYIFRMDADDISYPSRFDQIRPWE-ENSLDPSATLIEL 122  
DB 626 FRENGHISEATNSALATGDFIAMDDELAPQALYEYVVKALNTDPTIDPLYTDEDX 685  
QY 123 IDQGNLYVKQESNKYILNDIRKMLNSILAHPTVCYKKYFDKLMGRDLY-PVED 181  
DB 686 ITENG-----RRFAFKSDPNPDLINHYITHFV-VVRDLEKVGGLNSAVNGAQD 738  
QY 182 YDPAIRGALADPKILNKVLQVRLNENGISQTNKFKQYISA--ILDPYKESYID 238  
DB 739 YDFVLRATEQATKIRIGIOMYHWALISSALNPESKGYAVVAGQKAVQATERGLKA 798  
QY 238 ITKITYFOEYVTKKRYQELSIFELKSPSTITIRKLYICLYLFKSPLVVRLIND 297  
DB 799 QVEIAEFYGSYKIN-----LYDHPVWSLIITND 828

RESULT 4  
US-08-312-387B-3  
Sequence 3, Application US/08312387B  
Patent No. 5545553  
GENERAL INFORMATION:  
APPLICANT: Gotschlich, Emil C.  
TITLE OF INVENTION: GLYCOSYLTRANSFERASES FOR BIOSYNTHESIS OF  
NUMBER OF SEQUENCES: 12  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Klauber & Jackson  
STREET: 411 Hackensack Avenue  
CITY: Hackensack  
STATE: New Jersey  
COUNTRY: USA  
ZIP: 07601  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: PatentIn Release #1.0, Version #1.25  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/312,387B  
FILING DATE: July 7, 1994  
CLASSIFICATION: 435  
ATTORNEY/AGENT INFORMATION:  
NAME: Jackson Esq., David A.  
REGISTRATION NUMBER: 26,742  
REFERENCE/DOCKET NUMBER: 600-1-095  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 201 487-5800  
TELEFAX: 201 343-1684  
TELEX: 135521  
INFORMATION FOR SEQ ID NO: 3:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 348 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
US-08-312-387B-3

Query Match 13.2%; Score 210.5; DB 1; Length 348;  
Best Local Similarity 27.8%; Pred. No. 2.3e-11;  
Matches 86; Conservative 55; Mismatches 123; Indels 45; Gaps 15;

QY 4 SIMSVNPEPLNYVDVSESLNQTLDPEFIIVDNPSSRGDLKQFLTEYSVVDNRKIL 63  
DB 6 SVLICAYNVE-KYFAQSILAAVNVQTNWRLDITLIVDDSGTDGLT-AIAKQFORDSRIKIL 63

QY 64 LNEENIGLASSINKAV-KISK-----GEYIFRMDADDISYSPRFDKQIRFMEENS--LDF 115  
DB 64 AQAONSGILPSLNLGLDELANSGGGGGEYIARTDADDIASBGMTEKIVGENEKORSTIAM 123  
QY 116 SATLIELIDOK-GNLVYKORESNKIYLT---NDIRKMLNRSILAHPTWCVKKKYFIDL 170  
DB 124 GAMLEVLSEEDKGNLRAHHKGGKIWKPTREDIAAFPPGPNPHNNMTIMRSVIDGG 183  
QY 171 MGY---RDIVPEYEDF---AIRGALADFKIGLNLKVLQYRLNENGISQTKKQYIY 223  
DB 184 LRYDTERMW--AEDYQFWYDVSKLGRLAYYP---EALVKYRLHANOVSSKHSVRQH-- 234  
QY 224 SAILDFFYKESYIDITKITNYFOEYVKKRYT---QOELSKYFEL--KSTPSITIRKL 277  
DB 235 -EIAQIGCK-----TARNDFLOSMGFRTFRDSLEVRQTKAAAYELPEKDLPEEDPERA 286  
QY 278 YICLYLYFK 286  
DB 287 RRFYQCFK 295

## RESULT 5

US-08-312-387B-11  
; Sequence 11, Application US/08312387B  
; Patent No. 5545553  
; GENERAL INFORMATION:  
; APPLICANT: Gotschlich, Emil C.  
; TITLE OF INVENTION: GLYCOSYLTRANSFERASES FOR BIOSYNTHESIS OF  
; TITLE OF INVENTION: OLIGOSACCHARIDES, AND GENES ENCODING THEM  
; NUMBER OF SEQUENCES: 12  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Klauber & Jackson  
; STREET: 411 Hackensack Avenue  
; CITY: Hackensack  
; STATE: New Jersey  
; COUNTRY: USA  
; ZIP: 07601  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: Patent Release #1.0, Version #1.25  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/312,387B  
; FILING DATE: July 7, 1994  
; CLASSIFICATION: 435  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Jackson Esq., David A.  
; REGISTRATION NUMBER: 26,742  
; REFERENCE/DOCKET NUMBER: 600-1-095  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: 201 487-5800  
; TELEFAX: 201 343-1684  
; TELEX: 133521  
; INFORMATION FOR SEQ ID NO: 11:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 348 amino acids  
; TYPE: amino acid  
; TOPOLOGY: linear  
; MOLECULE TYPE: protein  
; US-08-312-387B-11

Query Match 13.2%; Score 210.5; DB 1; Length 348;  
Best Local Similarity 27.8%; Pred. No. 2.3e-11;  
Matches 86; Conservative 55; Mismatches 123; Indels 45; Gaps 15;  
QY 4 SIMSVYNEPLNYRDSVSISLNGTLTDFEPIVINDPSSGDLKQFLTEYSVNDRIKIL 63  
DB 6 SVLICAYNVE-KYFAQSLAAVAVNQTRNLDILIVDGSITDGL-ATAKDFQKDSRIKIL 63  
QY 64 LNEENIGLASSINKAV-KISK-----GEYIFRMDADDISYSPRFDKQIRFMEENS--LDF 115

DB 64 AQAONSGILPSLNLGLDELANSGGGGGEYIARTDADDIASBGMTEKIVGENEKORSTIAM 123  
QY 116 SATLIELIDOK-GNLVYKORESNKIYLT---NDIRKMLNRSILAHPTWCVKKKYFIDL 170  
DB 124 GAMLEVLSEEDKGNLRAHHKGGKIWKPTREDIAAFPPGPNPHNNMTIMRSVIDGG 183  
QY 171 MGY---RDIVPEYEDF---AIRGALADFKIGLNLKVLQYRLNENGISQTKKQYIY 223  
DB 184 LRYDTERMW--AEDYQFWYDVSKLGRLAYYP---EALVKYRLHANOVSSKHSVRQH-- 234  
QY 224 SAILDFFYKESYIDITKITNYFOEYVKKRYT---QOELSKYFEL--KSTPSITIRKL 277  
DB 235 -EIAQIGCK-----TARNDFLOSMGFRTFRDSLEVRQTKAAAYELPEKDLPEEDPERA 286  
QY 278 YICLYLYFK 286  
DB 287 RRFYQCFK 295

## RESULT 6

US-08-683-426-3  
; Sequence 3, Application US/08683426  
; Patent No. 5705367  
; GENERAL INFORMATION:  
; APPLICANT: Gotschlich, Emil C.  
; TITLE OF INVENTION: GLYCOSYLTRANSFERASES FOR BIOSYNTHESIS OF  
; TITLE OF INVENTION: OLIGOSACCHARIDES, AND GENES ENCODING THEM  
; NUMBER OF SEQUENCES: 12  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Klauber & Jackson  
; STREET: 411 Hackensack Avenue  
; CITY: Hackensack  
; STATE: New Jersey  
; COUNTRY: USA  
; ZIP: 07601  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: Patent Release #1.0, Version #1.25  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/683,426  
; FILING DATE:  
; CLASSIFICATION: 536  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: 08/312,387  
; FILING DATE: September 26, 1994  
; CLASSIFICATION: 536  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Jackson Esq., David A.  
; REGISTRATION NUMBER: 26,742  
; REFERENCE/DOCKET NUMBER: 600-1-095B  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: 201 487-5800  
; TELEFAX: 201 343-1684  
; TELEX: 133521  
; INFORMATION FOR SEQ ID NO: 3:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 348 amino acids  
; TYPE: amino acid  
; TOPOLOGY: linear  
; MOLECULE TYPE: protein  
; US-08-683-426-3

Query Match 13.2%; Score 210.5; DB 1; Length 348;  
Best Local Similarity 27.8%; Pred. No. 2.3e-11;  
Matches 86; Conservative 55; Mismatches 123; Indels 45; Gaps 15;  
QY 4 SIMSVYNEPLNYRDSVSISLNGTLTDFEPIVINDPSSGDLKQFLTEYSVNDRIKIL 63  
DB 6 SVLICAYNVE-KYFAQSLAAVAVNQTRNLDILIVDGSITDGL-ATAKDFQKDSRIKIL 63  
QY 64 LNEENIGLASSINKAV-KISK-----GEYIFRMDADDISYSPRFDKQIRFMEENS--LDF 115

Db 64 AQAQNSGLIPSLNIGDELAKSGGGEYIARTDADIASPGWIEKIVGEMEDREIIM 123  
QY 116 SATLIELIDOK-GNLVYKQRESNKIYLT---NDIRKMLNRSILAHPTWCVKKKVFDKL 170  
Db 124 GAWLEVLSEKDKGNRLARHKGKIMKPPRHEDIAAFPPGPNINNNMTIMRSVTDGG 183  
QY 171 MGY---RDLVPEVDYDF---AIRGALADFKIGLNLKVLQYRLNENGISQTKRFQYIY 223  
Db 184 LRYDTERDM--AEDYQFWYDVSKIGRLAYP-----EALVYKRLHANQVSKSHSVQOH-- 234  
QY 224 SAILQDFYKESYIDITKITNYFOEYVIKRYT---QOELSKYFEL--KSTPSITIRKL 277  
Db 235 -EIAQGIQK-----TARNDFLOSMGFKTRFDSLEYRQTKAAAYELPEKDLPEEDFERA 286  
QY 278 YICLYLYFK 286  
Db 287 RRFLYQCFK 295

## RESULT 7

US-08-683-426-11  
; Sequence 11, Application US/08683426  
; Patent No. 5705367  
; GENERAL INFORMATION:  
; APPLICANT: Gotschlich, Emil C.  
; TITLE OF INVENTION: GLYCOSYLTRANSFERASES FOR BIOSYNTHESIS OF  
; TITLE OF INVENTION: OLIGOSACCHARIDES, AND GENES ENCODING THEM  
; NUMBER OF SEQUENCES: 12  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Klauber & Jackson  
; STREET: 411 Hackensack Avenue  
; CITY: Hackensack  
; STATE: New Jersey  
; COUNTRY: USA  
; ZIP: 07601  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: Patentin Release #1.0, Version #1.25  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/683,426  
; FILING DATE:  
; CLASSIFICATION: 536  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: 08/312,387  
; FILING DATE: September 26, 1994  
; CLASSIFICATION: 536  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Jackson Esq., David A.  
; REGISTRATION NUMBER: 26,742  
; REFERENCE/DOCKET NUMBER: 600-1-095B  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: 201 487-5800  
; TELEFAX: 201 343-1684  
; TELEEX: 133521  
; INFORMATION FOR SEQ ID NO: 11:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 348 amino acids  
; TYPE: amino acid  
; TOPOLOGY: linear  
; MOLECULE TYPE: protein  
; US-08-683-426-11

Query Match 13.2%; Score 210.5; DB 1; Length 348;

Best Local Similarity 27.8%; Pred. No. 2.3e-11;

Matches 86; Conservative 55; Mismatches 123; Indels 45; Gaps 15;

QY 4 SIMSVNPEPLNYVDVSISINQTLTDFEFLIYDNRSGDLKQFLTEYSVVDNRKIL 63  
Db 6 SVLICAYNVE-KYFQASILAAYVNTWRNLDTLITVDGSDTGL-ALAKDFQKRSRIKIL 63

QY 64 LINEENIGLASSLNKAV-KISK-----GEYIFRMADADISYPSRFDQIRMEENS--LDF 115  
Db 64 AQAQNSGLIPSLNIGDELAKSGGGEYIARTDADIASPGWIEKIVGEMEDREIIM 123  
QY 116 SATLIELIDOK-GNLVYKQRESNKIYLT---NDIRKMLNRSILAHPTWCVKKKVFDKL 170  
Db 124 GAWLEVLSEKDKGNRLARHKGKIMKPPRHEDIAAFPPGPNINNNMTIMRSVTDGG 183  
QY 171 MGY---RDLVPEVDYDF---AIRGALADFKIGLNLKVLQYRLNENGISQTKRFQYIY 223  
Db 184 LRYDTERDM--AEDYQFWYDVSKIGRLAYP-----EALVYKRLHANQVSKSHSVQOH-- 234  
QY 224 SAILQDFYKESYIDITKITNYFOEYVIKRYT---QOELSKYFEL--KSTPSITIRKL 277  
Db 235 -EIAQGIQK-----TARNDFLOSMGFKTRFDSLEYRQTKAAAYELPEKDLPEEDFERA 286  
QY 278 YICLYLYFK 286  
Db 287 RRFLYQCFK 295

## RESULT 8

US-08-683-458-3  
; Sequence 3, Application US/08683458  
; Patent No. 5798233  
; GENERAL INFORMATION:  
; APPLICANT: Gotschlich, Emil C.  
; TITLE OF INVENTION: GLYCOSYLTRANSFERASES FOR BIOSYNTHESIS OF  
; TITLE OF INVENTION: OLIGOSACCHARIDES, AND GENES ENCODING THEM  
; NUMBER OF SEQUENCES: 12  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Klauber & Jackson  
; STREET: 411 Hackensack Avenue  
; CITY: Hackensack  
; STATE: New Jersey  
; COUNTRY: USA  
; ZIP: 07601  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: Patentin Release #1.0, Version #1.25  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/683,458  
; FILING DATE:  
; CLASSIFICATION: 435  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: 08/312,387  
; FILING DATE: September 26, 1994  
; CLASSIFICATION: 435  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Jackson Esq., David A.  
; REGISTRATION NUMBER: 26,742  
; REFERENCE/DOCKET NUMBER: 600-1-095A  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: 201 487-5800  
; TELEFAX: 201 343-1684  
; TELEEX: 133521  
; INFORMATION FOR SEQ ID NO: 3:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 348 amino acids  
; TYPE: amino acid  
; TOPOLOGY: linear  
; MOLECULE TYPE: protein  
; US-08-683-458-3

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Best Local Similarity 27.8%; Pred. No. 2.3e-11;

Matches 86; Conservative 55; Mismatches 123; Indels 45; Gaps 15;

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Db  64 AQAQNSLPIRLINIGDELAKSGGGGGEYIARTDDDIASPEWLEKIYGEWEXORSIIAM 123E
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RESULT 11  
 US-08-878-360-11  
 Sequence 11, Application US/08878360  
 Patent No. 5945322  
 GENERAL INFORMATION:  
 APPLICANT: Gotschlich, Emil C.  
 TITLE OF INVENTION: GLYCOSYLTRANSFERASES FOR BIOSYNTHESIS OF  
 TITLE OF INVENTION: OLIGOSACCHARIDES, AND GENES ENCODING THEM  
 NUMBER OF SEQUENCES: 12  
 CORRESPONDENCE ADDRESS:  
 ADDRESSES: Klauber & Jackson  
 STREET: 411 Hackensack Avenue  
 CITY: Hackensack  
 STATE: New Jersey  
 COUNTRY: USA  
 ZIP: 07601  
 COMPUTER READABLE FORM:  
 MEDIUM TYPE: Floppy disk  
 COMPUTER: IBM PC compatible  
 OPERATING SYSTEM: PC-DOS/MS-DOS  
 SOFTWARE: PatentIn Release #1.0, Version #1.25  
 CURRENT APPLICATION DATA:  
 APPLICATION NUMBER: US/08/878,360  
 FILING DATE: 18-JUN-1997  
 CLASSIFICATION: 435  
 PRIOR APPLICATION DATA:  
 APPLICATION NUMBER: 08/683,426  
 FILING DATE:  
 APPLICATION NUMBER: 08/312,387  
 FILING DATE: September 26, 1994  
 CLASSIFICATION: 435  
 ATTORNEY/AGENT INFORMATION:  
 NAME: Jackson Esq., David A.  
 REGISTRATION NUMBER: 26,742  
 REFERENCE/DOCKET NUMBER: 600-1-095B  
 TELECOMMUNICATION INFORMATION:  
 TELEPHONE: 201 487-5800  
 TELEFAX: 201 343-1684  
 TELEX: 133521  
 INFORMATION FOR SEQ ID NO: 11:  
 SEQUENCE CHARACTERISTICS:  
 LENGTH: 348 amino acids  
 TYPE: amino acid  
 TOPOLOGY: linear  
 MOLECULE TYPE: protein  
 US-08-878-360-11

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Best Local Similarity	27.8%;	Pred. No. 2.3e-11;		
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				Indels 45;
				Gaps 15

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RESULT 12  
 US-08-478-140B-3  
 ; Sequence 3, Application US/08478140B  
 ; Patent No. 6127153  
 ; GENERAL INFORMATION:  
 APPLICANT: JOHNSON, KARL F.  
 APPLICANT: ROTH, STEPHEN  
 APPLICANT: BUCZALA, STEPHANIE L.  
 TITLE OF INVENTION: METHOD OF TRANSFERRING AT LEAST TWO  
 TITLE OF INVENTION: SACCHAROSE UNITS WITH A POLYGLYCOSYLTRANSFERASE, A  
 TITLE OF INVENTION: POLYGLYCOSYLTRANSFERASE AND GENE ENCODING A  
 TITLE OF INVENTION: POLYGLYCOSYLTRANSFERASE  
 NUMBER OF SEQUENCES: 8  
 CORRESPONDENCE ADDRESS:  
 ADDRESSEE: Pennie & Edmonds  
 STREET: 1155 Avenue of the Americas  
 CITY: New York  
 STATE: New York  
 COUNTRY: USA  
 ZIP: 10036-2711  
 COMPUTER READABLE FORM:  
 MEDIUM TYPE: floppy disk  
 COMPUTER: IBM PC compatible  
 OPERATING SYSTEM: PC-DOS/MS-DOS  
 SOFTWARE: PatentIn Release #1.0, Version #1.30  
 CURRENT APPLICATION DATA:  
 APPLICATION NUMBER: US/08/478,140B  
 FILING DATE: 07-JUN-1995  
 CLASSIFICATION: 435  
 ATTORNEY/AGENT INFORMATION:  
 NAME: Laura A. Coruzzi  
 REGISTRATION NUMBER: 30,742  
 REFERENCE/DOCKET NUMBER: 7188-017  
 TELECOMMUNICATION INFORMATION:  
 TELEPHONE: (212) 790-9090  
 TELEFAX: (212) 669-9741/8864  
 TELEX: 66141 PENNIE  
 INFORMATION FOR SEQ ID NO: 3:  
 SEQUENCE CHARACTERISTICS:  
 LENGTH: 348 amino acids  
 TYPE: amino acid  
 TOPOLOGY: linear  
 MOLECULE TYPE: protein  
 US-08-478-140B-3

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QY 6 SVLICAYNE-KYFAQSLAAYNQTRMLDILITDDGSDTGL-AIAXDPQKRSRIKIL 63
Db   :::::
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QY 64 AQONSGLLPIINIGIDELAKSGGGGGEYIAETDADDIASPGWIEKJGEMEKRSIIAM 123
Db   :::::
QY 116 SAILIILIOOK-GNLYVKORESNKIYLT-----NDIRKMLLRSLIAPHTWCVKKVPDKL 170
Db   :::::
QY 124 GAULEVLESEKONRLARHHKGIWKPKTRHEDLAAPFGNGPIHNMTIMRSVLDGG 183
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QY 171 MGY---RDLYVPEDYDF---AIRGALADFKIGLINTKVLQYRLNENGISOTNKFQYIY 223
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QY 184 LRDTDRDW--ADYQFMVDVSKLGLAYP-----EALVYKRIHAAQVSSKSHVRQH-- 234
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QY 224 SAILDQFYEKSYIDITKITNYFOEYVIKKRYT-----QOEISKYFEL--KSTPSIITRK 277
Db   :::::
QY 235 -ELAQGIQK-----TARNDFLQSGWGFTRDSLEYHQTAAYELPCKDLPEEDPERA 286
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QY 278 YICLYLYFK 286
Db   :::::
QY 287 RRFYQCFK 295
Db   :::::

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Patent No. 6127153  
GENERAL INFORMATION:  
APPLICANT: JOHNSON, KARL F.  
APPLICANT: BOTH, STEPHEN  
APPLICANT: BUCCALA, STEPHANIE L.  
TITLE OF INVENTION: METHOD OF TRANSFERRING AT LEAST TWO  
TITLE OF INVENTION: SACCHARIDE UNITS WITH A POLYGLYCOSYLTANSFERASE, A  
TITLE OF INVENTION: POLYGLYCOSYLTANSFERASE AND GENE ENCODING A  
TITLE OF INVENTION: POLYGLYCOSYLTANSFERASE  
NUMBER OF SEQUENCES: 8  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Pennie & Edmonds  
STREET: 1155 Avenue of the Americas  
CITY: New York  
STATE: New York  
COUNTRY: USA  
ZIP: 10036-2711  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: PatentIn Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/478,140B  
FILING DATE: 07-JUN-1995  
CLASSIFICATION: 435  
ATTORNEY/AGENT INFORMATION:  
NAME: Laura A. Coruzzi  
REGISTRATION NUMBER: 30,742  
REFERENCE/DOCKET NUMBER: 7188-017  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (212) 790-9090  
TELEFAX: (212) 869-9741/8864  
TELEX: 66141 PENNIE  
INFORMATION FOR SEQ ID NO: 8:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 348 amino acids  
TYPE: amino acid  
STRANDEDNESS: double  
TOPOLOGY: linear

Query Match	13.2%	Score 210.5;	DB 3;	Length 348;
Best Local Similarity	27.8%;	Pred. No. 2.9e-11;		
Matches	86;	Conservative 55;	Mismatches 123;	Indels 45; Gaps 15;
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D	6	SVLICAYNVE-KIPFQS.LAAVNQTWRNDLILLYDDOSTGTL-AIAKOPQRDSRIKL	63	
QY	64	LNEENIGLAASSLNKAV-RISK-----GEIYFRMDADISYSPHFDOIRFMEENG-LDE	115	
D	64	AQAQSGAIPSLNTIGELDELAKSGGGGEYIARTDADDIAGFGWIERKIYGVEMEKSDSIIM	123	
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D	184	LEYDEREDM-AEDYQFMWDVSKTGLALAYP-----EALKYRLHANQVSSKHSVWQH--	234	
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QY	278	YICLAYLFK	286	
D	287	RREFLYQCCK	295	

Patent No 6342382  
GENERAL INFORMATION:  
APPLICANT: Gotschlich, Emil C.  
TITLE OF INVENTION: GLYCOSYLTRANSFERASES FOR BIOSYNTHESIS OF  
NUMBER OF SEQUENCES: 12  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Klauber & Jackson  
STREET: 411 Hackensack Avenue  
CITY: Hackensack  
STATE: New Jersey  
COUNTRY: USA  
ZIP: 07601  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patent. Release #1.0, Version #1.25  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/09/333,412  
FILING DATE: 15-Jun-1999  
CLASSIFICATION: <Unknown>  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 08/312,387  
FILING DATE: July 7, 1994  
ATTORNEY/AGENT INFORMATION:  
NAME: Jackson Esq., David A.  
REGISTRATION NUMBER: 26,742  
REFERENCE/DOCKET NUMBER: 600-1-095  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 201 487-5800  
TELEFAX: 201 343-1684  
TELEX: 133521  
INFORMATION FOR SEQ ID NO. 3:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 348 amino acids  
TYPE: amino acid





GenCore version 5.1.6  
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OM nucleic - nucleic search, using sw model

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Title: US-09-900-038a-2

Perfect score: 939

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Scoring table: IDENTITY NUC

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Searched: 682709 segs, 27747546 residues

Total number of hits satisfying chosen parameters: 1365418

Minimum DB seq length: 0  
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

## SUMMARIES

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1	168.4	17.9	164976	US-08-916-421B-1	Sequence 1, Appl
2	73.6	7.8	1830121	US-09-557-884-1	Sequence 1, Appl
3	73.6	7.8	1830121	US-09-643-980A-1	Sequence 1, Appl
4	69.8	7.4	14187	US-09-453-702B-121	Sequence 12, App
5	64.8	6.9	906	US-09-495-406-14	Sequence 14, Appl
6	64.8	6.9	11474	US-09-495-406-11	Sequence 1, Appl
7	63.8	6.8	11474	US-09-495-406-11	Sequence 11, Appl
8	63.8	6.8	11474	US-09-495-406-11	Sequence 1, Appl
9	63.4	6.8	9121	US-09-134-000C-1681	Sequence 16, Appl
10	60.4	6.4	9121	US-09-495-406-16	Sequence 16, Appl
11	58.8	6.3	1602	US-09-134-000C-1682	Sequence 16, Appl
12	58.6	6.2	6474	US-08-961-527-155	Sequence 15, App
13	56.6	6.0	19124	US-08-487-826B-13	Sequence 13, Appl
14	55.6	5.9	19124	US-08-487-826B-13	Sequence 13, Appl
15	51	5.4	854	US-08-998-416-534	Sequence 53, App
16	50.8	5.4	1251	US-09-489-039A-1024	Sequence 1024, Ap
17	50.8	5.4	6156	US-10-204-708-60	Sequence 60, Appl
18	50	5.3	860	US-08-998-416-287	Sequence 287, App
19	50	5.3	6124	US-08-213-415B-3	Sequence 3, Appl
20	49.4	5.3	7218	US-08-332-463-14	Sequence 14, Appl
21	49.4	5.3	32768	US-08-961-527-71	Sequence 71, Appl
22	49.4	5.3	640681	US-09-790-988-1	Sequence 1, Appl
23	48.8	5.2	1882	US-08-257-073-12	Sequence 12, Appl
24	48.8	5.2	1884	US-08-257-073-18	Sequence 8, Appl
25	48.6	5.2	615	US-08-998-416-166	Sequence 166, App
26	48.4	5.1	5147	US-08-956-171E-182	Sequence 182, App
27	47.6	5.1	844	US-08-961-083-195	Sequence 195, App

28	47.6	5.1	844	US-09-536-784-195	Sequence 195, App
29	47.6	5.1	7304	US-10-204-708-44	Sequence 44, Appl
30	47.4	5.0	837	US-08-998-416-288	Sequence 288, App
31	47.4	5.0	6306	US-10-204-708-50	Sequence 50, Appl
32	46.6	5.0	640681	US-09-790-988-1	Sequence 1, Appl
33	46.4	4.9	2166	US-09-107-532X-3235	Sequence 3235, Ap
34	46	4.9	3701	US-08-845-258-10	Sequence 10, Appl
35	46	4.9	3701	US-08-990-571-10	Sequence 10, Appl
36	46	4.9	3701	US-08-723-142A-10	Sequence 10, Appl
37	46	4.9	3701	US-09-528-708A-10	Sequence 10, Appl
38	46	4.9	3701	US-09-569-098A-10	Sequence 10, Appl
39	45.6	4.9	636	US-08-998-416-1137	Sequence 1137, Ap
40	45.6	4.9	665	US-08-883-795A-36	Sequence 36, Appl
41	45.6	4.9	984	US-09-107-532X-2527	Sequence 2527, Ap
42	45.6	4.9	6152	US-08-973-462-1	Sequence 1, Appl
43	45.6	4.9	8920	US-08-446-855A-1	Sequence 1, Appl
44	45.6	4.9	8920	US-09-150-741-1	Sequence 1, Appl
45	45.6	4.9	15598	US-08-956-171E-82	Sequence 82, Appl

## ALIGNMENTS

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RESULT 1
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Patent No. 6503729
GENERAL INFORMATION:
APPLICANT: Bult et al.
TITLE OF INVENTION: Complete Genome Sequence of the Methanogenic Archaeon, Methanococcus
Patent No. 6503729
FILE REFERENCE: PB275
CURRENT APPLICATION NUMBER: US/08/916,421B
CURRENT FILING DATE: 1997-08-22
PRIOR APPLICATION NUMBER: US 60/024,428
PRIOR FILING DATE: 1996-08-22
NUMBER OF SEQ ID NOS: 3
SOFTWARE: PatentIn version 3.1
SEQ ID NO 1
LENGTH: 1664976
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ORGANISM: Methanococcus jannaschii
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NAME/KEY: misc_feature
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NAME/KEY: misc_feature
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OTHER INFORMATION: n equals a, t, c, or g
NAME/KEY: misc_feature
LOCATION: (1130881)..(1130881)
OTHER INFORMATION: n equals a, t, c, or g
NAME/KEY: misc_feature
LOCATION: (1310988)..(1310988)
OTHER INFORMATION: n equals a, t, c, or g
NAME/KEY: misc_feature
LOCATION: (1313224)..(1313224)
OTHER INFORMATION: n equals a, t, c, or g
NAME/KEY: misc_feature
LOCATION: (1349473)..(1349473)
OTHER INFORMATION: n equals a, t, c, or g
NAME/KEY: misc_feature
LOCATION: (1349491)..(1349491)
OTHER INFORMATION: n equals a, t, c, or g
NAME/KEY: misc_feature
LOCATION: (1470091)..(1470091)
OTHER INFORMATION: n equals a, t, c, or g
NAME/KEY: misc_feature
LOCATION: (1569020)..(1569020)
OTHER INFORMATION: n equals a, t, c, or g
NAME/KEY: misc_feature
LOCATION: (1602912)..(1602912)
OTHER INFORMATION: n equals a, t, c, or g
NAME/KEY: misc_feature
LOCATION: (1603734)..(1603734)
OTHER INFORMATION: n equals a, t, c, or g
NAME/KEY: misc_feature
LOCATION: (1637998)..(1637998)
OTHER INFORMATION: n equals a, t, c, or g
NAME/KEY: misc_feature
LOCATION: (1664854)..(1664854)
OTHER INFORMATION: n equals a, t, c, or g
US-08-916-421B-1

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Query Match 17.9%; Score 168.4; DB 4; Length 1664976;
Best Local Similarity 55.2%; Pred. No. 1.1e-27;
Matches 363; Conservative 5; Mismatches 281; Indels 9; Gaps 2;

QY 17 TTATGCGTATATATGAGCCCTTAAATATATGAGATTCAGTAGATCTATATTA 76
Db 475813 TAATGCAACATACACGAAACGAAATATTAAGAACTATGATCAATTTVA 475754
QY 77 ATCAAGCCTTATGATTTTGAATATATGCTATATATCAAGTAGAGTGAT 136
Db 475753 ATCAACATTTAAGATTTGATTTATATGATGATATCCAAATATTAAG 475694
QY 137 TAAAGCAATCTTAAGCAATATTCAGTTGATATGAATTAATAATCTGCTTA 196
Db 475693 CAGAGCAATTTAAGCAATATCAACAGAAATTAAGATTTATTAATAAG 475634
QY 197 AAGAAATATGCTTATGATCAAGTTGAACAAGCGTGAATTTCTAAGGGAAT 256

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Db 475613 AAGAAATTTGATGATGAGGAGCCAGTAAATTAAGCTGTATATATAGCAAGGGAGT 475574
Qy 257 ATATTTTGAATGATGCTGATGATATTTTATATCCAGTAGATTTGATAGCAATTC 316
Db 475573 ATATTTGCCATATTTAGACCTGATGATGATTTGATTAACCTAAAGATTGAAAAACAAATTTA 475514
Qy 317 GTTTATGAGAGAAATTTCA---TTGATTTCTCGACCACTCTATAGATTTGATAGCC 373
Db 475513 AATATATGAAATTAATAGACATGATTTATTTAGTGGGTTTATTTATTTAGTG 475454
Qy 374 AAAAAAGAAATTTAGTATATTAACAGACAGAAAGTAAATTAATTTACTTAACTATATGTA 433
Db 475453 AAAAAAGAAATTT-----TTTAAAAAGTTTAAAGCCAGAAAAATATATAATTTAAAGAAA 475400
Qy 434 TACGGAATATGTTATGTAATGATCTATATCTGGCCACCAAGCTGGGCTTAAAGAAA 493
Db 475399 TTTAAAAATATTTTTCATAAGACATTTTACTTTCACTCATATGATGTTAAAGGTA 475340
Qy 494 AAGTTTTCATTAAGTTAATGGATATAGAGATTAGATTTAGTACTGTTGAAGATTATGATTTTG 553
Db 475339 AATCTTAAAGAAATTTAAATAGATGAGAAATTAATAGGCTCCAGACTACATCATTTT 475280
Qy 554 CATATAGAGAGCTCTGCTGATTTTCAAAATCGGCTTACTCAATTAAGTACTTTTAAAGT 613
Db 475279 GGATTAAGATGATAGCCCAATGATTAATAATTTGACATTAATGAGAAATTTTATTAAT 475220
Qy 614 ATAGATTAACGAGATGGAATATATCAAAACCAATTAAGTAAAGCAATATATTTACTG 671
Db 475219 ATAGATTTCCAAATTAAGACATTTATTTAAGCAGAAATCAAAAAATTAATATTC 475162

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RESULT 2
US-09-557-884-1
; Sequence 1, Application US/09557884
; Patent No. 6506581
; GENERAL INFORMATION:
; APPLICANT: Fleischmann et al.
; TITLE OF INVENTION: The Nucleotide sequence of
; the Haemophilus influenzae Rd Genome, Fragments
; Thereof, and Uses Thereof
;
; NUMBER OF SEQUENCES: 1
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Human Genome Sciences, Inc.
; STREET: 9410 Key West Avenue
; CITY: Rockville
; STATE: MD
; COUNTRY: USA
; ZIP: 20850
; COMPUTER READABLE FORM:
; MEDIUM TYPE: 3 1/2 inch diskette
; COMPUTER: Dell Pentium
; OPERATING SYSTEM: MS DOS v6.22
; SOFTWARE: ASCII Text
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/557,884
; FILING DATE: 25-Apr-2000
; CLASSIFICATION: <Unknown>
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/476,102
; FILING DATE: JUN-5-1995
; ATTORNEY/AGENT INFORMATION:
; NAME: Michelle S. Marks
; REGISTRATION NUMBER: 41,971
; REFERENCE/DOCKET NUMBER: PB186P3
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 301-309-8504
; TELEFAX: 301-309-8439
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1830121 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: double

```

```

; TOPOLOGY: linear
; SEQUENCE DESCRIPTION: SEQ ID NO: 1:
US-09-557-884-1
Query Match 7.8%; Score 73.6; DB 4; Length 1830121;
Best Local Similarity 54.9%; Freq. No. 5.6e-07;
Matches 167; Conservative 0; Mismatches 134; Indels 3; Gaps 1;
Qy 30 TATGAGCCTTAAATTAATGAGAGATTCAGTAGATCTATATTAATCAACGCTTAC 89
Db 1646128 TTTAAGCTGAGCATATATATGAGAAAGCAATTCATCATTAATATACAGACTATGA 1646187
Qy 90 TCAATTTGCTCATATATGTCATTTGATATATCCAGTAGAGGTATTTAAAGCAATTC 149
Db 1646188 AATCTTGAATAATATATGTTATCAATGATGTTCAACAGATTGACTTGTCTCA--TTT 1646244
Qy 150 AACAGAAATTTCACTGTATGATATATAGATTAATAAATCTTGTAAATGAAGAAATTTGG 209
Db 1646245 AGAAGAAATATCTAAATTAATGATTAAGAAATTAATTAATCAATTAATTAATTTAG 1646304
Qy 210 TTAGATCAAGTTTGAACAAAGCGGTGAATTTCTAAGGAGAAATATATTTTNGAAT 269
Db 1646305 GTTCATTAATTTCTTGAATATAGCCCTGTGTTTTCAGGTAATATTTTGCAAGAA 1646364
Qy 270 GGATGCTGATGATATTTTCATATCCAGTAGATTGATTAAGCAAAATCGTTTATGAGAGA 329
Db 1646365 GGATGCTGATGATATTTGCTTAACCAATCGTGATTTGAGAAATATTTTACTTACTGAGAA 1646424
Qy 330 AAT 333
Db 1646425 AAT 1646428

```

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RESULT 3
US-09-643-990A-1
; Sequence 1, Application US/09643990A
; Patent No. 6528289
; GENERAL INFORMATION:
; APPLICANT: Robert D. Fleischmann
; Mark D. Adams
; Owen White
; Hamilton O. Smith
; J. Craig Venter
; TITLE OF INVENTION: The Nucleotide sequence of
; the Haemophilus influenzae Rd Genome, Fragments
; Thereof, and Uses Thereof
;
; NUMBER OF SEQUENCES: 1
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Human Genome Sciences, Inc.
; STREET: 9410 Key West Avenue
; CITY: Rockville,
; STATE: MD
; COUNTRY: USA
; ZIP: 20850
; COMPUTER READABLE FORM:
; MEDIUM TYPE: 3 1/2 inch diskette
; COMPUTER: Dell Pentium
; OPERATING SYSTEM: MS DOS v6.22
; SOFTWARE: ASCII Text
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/643,990A
; FILING DATE: 23-Aug-2000
; CLASSIFICATION: <Unknown>
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/487,429
; FILING DATE: 1995-06-07
; APPLICATION NUMBER: 08/426,787
; FILING DATE: 1995-04-21
; ATTORNEY/AGENT INFORMATION:
; NAME: Kenley K. Hoover
; REGISTRATION NUMBER: 40,302
; REFERENCE/DOCKET NUMBER: PB186P1C1
; TELECOMMUNICATION INFORMATION:

```

```

: TELPHONE: 301-610-5750
: TELEFAX: 310-309-8439
: INFORMATION FOR SEQ ID NO: 1:
:
: SEQUENCE CHARACTERISTICS:
:
: LENGTH: 1830121 base pairs
: TYPE: nucleic acid
: STRANDEDNESS: double
: TOPOLOGY: linear
: SEQUENCE DESCRIPTION: SEQ ID NO: 1:
:
: US-09-643-990A-1

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Query Match	7.8%;	Score 73.6;	DB 4;	Length 1830121;
Best Local Similarity	54.9%;	Pred. No. 5.6e-07;		
Matches 167;	Conservative	0;	Mismatches 134;	Indels 3;
			Gaps	17

QY	30	AAATGAGCGCTTTAATTTTNGGAGAGATTCAGTAGAATCTCTATATTAATTCAAAGCGCTAC	89
Db	1646128	TTATACCGCTGAGCAATATATAGATGAAAGCACTTCCATCCATTATTAATCAGACTTATGA	1646187
QY	90	TGATTTTGAATCATTAATTCCTCATTGATTAATCCAAAGTAGAGTATTTAAAGCAATCTT	149
Db	1646188	AAATGTACAAATTTATAGTTATTCMAATGAAGGTCCAAACAGATTGACTTGTGTCA--TTT	1646244
QY	150	AACAGAAATTTAGTTGATGTGATTAATAGATAATAAAATCTTGCTTAATGAGAAATATTGG	209
Db	1646245	AGAAATAATTCCTAATTAATTAGATPAAAGATTAATAATTCAGTATTAATAATTAATTTAGG	1646304
QY	210	TTTACATCAAGTTTGAAACAAAGCGGTGAAAATTTCTAAGGAGAAATATTTTAGAAT	269
Db	1646305	GTTCAATAATCTTTGAAATATNGGCGCTTGCTGTTTTCAGGTAAATATTTTGCAGAAAT	1646364
QY	270	GGATGCTGATGATATTTCATATCCAAAGTAGAATTTGATAAAGCAAAATCTGTTTATGAGAGA	329
Db	1646365	GGATGCTGATGATATTAGCTAAACCAATCGGATGAGAAAATAGTACCTATCTGGAGAA	1646424
QY	330	AAAT 333	
Db	1646425	AAAT 1646428	

US-09-453-702B-121/c  
Sequence 121, Application US/09453702B  
Patent No. 6365723  
GENERAL INFORMATION:  
APPLICANT: Blatner, Frederick R.  
Burland, Nicole T.  
Perna, Nicole T.  
Valerie  
Plunkett, Guy  
Welch, Rod  
TITLE OF INVENTION: No. 6365723e1 Sequences of E. coli O157  
NUMBER OF SEQUENCES: 265  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Quarles & Brady  
STREET: 1 South Pinckney Street  
CITY: Madison  
STATE: WI  
COUNTRY: US  
ZIP: 53701-2113  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Diskette, 3.50 inch, 1.44MB storage  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Word Perfect 8.0  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/09/453,702B  
FILING DATE: 03-Dec-1999  
CLASSIFICATION: <Unknown>  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 60/110,955  
FILING DATE: 04-DEC-1998  
ATTORNEY/AGENT INFORMATION:  
NAME: Seay, Nicholas J.

1 REGISTRATION NUMBER:27386  
2  
3 REFERENCE/DOCKET NUMBER: 360296.9501  
4  
5 TELECOMMUNICATION INFORMATION:  
6  
7 TELEPHONE: (608) 251-5000  
8  
9 TELEFAX: (608) 251-9166  
10  
11  
12 INFORMATION FOR SEQ ID NO: 121:  
13  
14 SEQUENCE CHARACTERISTICS:  
15  
16 LENGTH: 14187  
17  
18 TYPE: nucleic acid  
19  
20 STRANDEDNESS: double  
21  
22 TOPOLOGY: linear  
23  
24 MOLECULE TYPE: DNA (genomic)  
25  
26 SOURCE DESCRIPTION: SEQ ID NO: 121:  
27  
28 US-09-453-702B-121

Query Match	7.4%;	Score 69.8;	DB 4;	length 14187;
Best Local Similarity	52.7%;	Pred. No. 1.6e-06;		
Matches 175;	Conservative	0;	Mismatches 154;	Indels 3;
			Gaps	1;

OY	58	TCGCTGGAATCTATTTAAATCAAAAGCGCTACGATTTTGAGTCTCAATTCGATCAT	117
Db	13859	TCAGTGAATCAATTTATTCATCACTCTTATCGAATTTTG---TTTGTATATCATTTGAC	13803
OY	118	AATCCAACTGAGCGTGAATTTAAAGCAATCTTTACGAAATTTTCAGTTGTAGATATATA	177
Db	13802	GATGTGTGCACCGCATGTATTCATTTTCATTAATACAGTCGATACAAAAAATCTCGAAA	13743
OY	178	ATATAAATCTGCTTTATGAGAAGAAATATGTGTTTGCATCAAGTTTGACAAAGCGGTG	237
Db	13742	ATTAGATATTTGGGTATACAGACAAATTTAGTGTTTGCAGAAAGTCGAATTTATGGAATA	13683
OY	238	AAAATTTTCTAAGGAGATATATTTTTCAGATGCTGATGATATTTTCATATCCAACT	297
Db	13682	GAAATGGCCACGGGGAATATATTTCTTTTGTGATGCGGATATTTTGCCACGAGAAA	13622
OY	298	AGATTATATAGCAAAATTCGTTTATGAGAGAAATTCATTTGATTTTCAGCAACTCTTA	357
Db	13622	AAATTAAGAGGCTCAAAATCGAAGTGTTAAATAATGAATGTAGATGTGATATTTCTAAT	13563
OY	358	ATAGAAATTCATACACAAAAGAAATTTTGT	389
Db	13562	TATTAATGTATAGATACAAAAGAAATATTTGT	13531

```

RESULT 5
US-09-495-406-14
/ Sequence 14: Application US/09495406
/ Patent No. 6503744
/ GENERAL INFORMATION:
/ APPLICANT: Gilbert, Michel
/ APPLICANT: Wakarchuk, Warren W.
/ APPLICANT: National Research Council of Canada
/ TITLE OF INVENTION: Campylobacter Glycosyltransferases for Biosynthesis
/ TITLE OF INVENTION: Gangliosides and ganglioside Mimics
/ FILE REFERENCE: 019633-000110US
/ CURRENT APPLICATION NUMBER: US/09/495,406
/ CURRENT FILING DATE: 2000-01-31
/ PRIOR APPLICATION NUMBER: US 60/118,213
/ PRIOR FILING DATE: 1999-02-01
/ NUMBER OF SEQ ID NOS: 35
/ SOFTWARE: PatentIn Ver. 2.1
/ SEQ ID NO 14
/ LENGTH: 906
/ TYPE: DNA
/ ORGANISM: Campylobacter jejuni
/ FEATURE:
/ NAME/KEY: CDS
/ LOCATION: (1)..(906)
/ OTHER INFORMATION: beta-1,3-galactosyltransferase from C. jejuni strain
/ OTHER INFORMATION: OH4384 (ORF 6a of LOS biosynthesis locus)
US-09-495-406-14
Query Match          6.3%;   Score 64.8;   DB 4;   Length 906;

```

Best Local Similarity 51.8%; Pred. No. 1.2e-05;  
Matches 172; Conservative 0; Mismatches 157; Indels 3; Gaps 1;

QY 1 ATGAATTAAGTATCATTTATGCTGATATATAGAGCTTTAAATTAATGAGAGATTCA 60  
DB 1 ATGTTAAATTTCAATCATCTTACCACTTAATATGGAACAATATATGCAAGGCA 60  
QY 61 GTAGAACTTATATTAATCAACGCTTACGATTTGAGTTCATTAATGTCATTGATAT 120  
DB 61 ATGAAAGCTGATCAATCAAGCTTTTAAAGATAGA---AATATGTTGATGATGAT 117  
QY 121 CCAAGTAGAGGTGATTTAAAGCAATCTTAAAGATATTCAGTTGATGATATAGATA 180  
DB 118 TGTGAATATGATATATGATATTAATATAGCCAAAGATCTTAAAGAAACAAAGATA 177  
QY 181 AAAATCTGCTTAATGAGAAATAATTTGTTAGATCAAGTTTGAACAAAGCGTAAA 240  
DB 178 AAAATTAATCCAAATGAAAAAACTTAGGCTTTTAAAGCAAGATATGAAAGTGTA 237  
QY 241 ATTTTAAGGAGAAATATATTTTGAATGATGCTGATGATATTCATATCAAGTGA 300  
DB 238 GTAGCAAACTCTCCCTATATATATGTTTAACTCTGATGATTTTGAAGTAAATGCT 297  
QY 301 TTTGATTAAGCAATTCGTTTATGAGAGAAA 332  
DB 298 TGTGAAGAGTGTATATAAAATTTTATAGATGAACA 329

## RESULT 6

US-09-495-406-1/c  
Sequence 1, Application US/09495406

Patent No. 6503744  
GENERAL INFORMATION:  
APPLICANT: Gilbert, Michel  
APPLICANT: Wakarchuk, Warren W.  
APPLICANT: National Research Council of Canada  
TITLE OF INVENTION: Campylobacter Glycosyltransferases for Biosynthesis of  
FILE REFERENCE: 019633-000110US  
CURRENT APPLICATION NUMBER: US/09/495,406  
CURRENT FILING DATE: 2000-01-31  
PRIOR APPLICATION NUMBER: US 60/118,213  
PRIOR FILING DATE: 1999-02-01  
NUMBER OF SEQ ID NOS: 35  
SOFTWARE: PatentIn Ver. 2.1  
SEQ ID NO 1  
LENGTH: 11474  
TYPE: DNA  
ORGANISM: Campylobacter jejuni  
FEATURE:  
OTHER INFORMATION: 11.5 kb PCR product from C. jejuni OH4384  
US-09-495-406-1

Query Match 6.9%; Score 64.8; DB 4; Length 11474;  
Best Local Similarity 51.8%; Pred. No. 1.9e-05;  
Matches 172; Conservative 0; Mismatches 157; Indels 3; Gaps 1;

QY 1 ATGAATTAAGTATCATTTATGCTGATATATAGAGCTTTAAATTAATGAGAGATTCA 60  
DB 5959 ATGTTAAATTTCAATCATCTTACCACTTAATATGGAACAATATATGCAAGGCA 5900  
QY 61 GTAGAACTTATATTAATCAACGCTTACGATTTGAGTTCATTAATGTCATTGATAT 120  
DB 5899 ATGAAAGCTGATCAATCAAGCTTTTAAAGATATGA--AATATGTTGATGATGAT 5843  
QY 121 CCAAGTAGAGGTGATTTAAAGCAATCTTAAAGATATTCAGTTGATGATATAGATA 180  
DB 5842 TGTGAATATGATATATGATATTAATATAGCCAAAGATCTTAAAAAACAAGAAATA 5783  
QY 181 AAAATCTGCTTAATGAGAAATAATTTGTTAGATCAAGTTTGAACAAAGCGTAAA 240  
DB 5782 AAAATTAATCCAAATGAAAAAACTTAGTCTTTTAAAGCAAGATATAGAGTGTGAAA 5723

QY 241 ATTTTAAGGAGAAATATATTTTGAATGATGCTGATGATATTTCAATATCAAGTGA 300  
DB 5722 GTAGCAAACTCTCCCTATATATATGTTTAACTCTGATGATATTTTGAACATAATGCT 5663  
QY 301 TTTGATTAAGCAATTCGTTTATGAGAGAAA 332  
DB 5662 TGTGAAGAGTGTATATAAAATTTTATAGATGAACA 5631

## RESULT 7

US-09-495-406-11  
Sequence 11, Application US/09495406

Patent No. 6503744  
GENERAL INFORMATION:  
APPLICANT: Gilbert, Michel  
APPLICANT: Wakarchuk, Warren W.  
APPLICANT: National Research Council of Canada  
TITLE OF INVENTION: Campylobacter Glycosyltransferases for Biosynthesis of  
FILE REFERENCE: 019633-000110US  
CURRENT APPLICATION NUMBER: US/09/495,406  
CURRENT FILING DATE: 2000-01-31  
PRIOR APPLICATION NUMBER: US 60/118,213  
PRIOR FILING DATE: 1999-02-01  
NUMBER OF SEQ ID NOS: 35  
SOFTWARE: PatentIn Ver. 2.1  
SEQ ID NO 11  
LENGTH: 1170  
TYPE: DNA  
ORGANISM: Campylobacter jejuni  
FEATURE:  
OTHER INFORMATION: glycosyltransferase from C. jejuni strain OH4384  
US-09-495-406-11

Query Match 6.8%; Score 63.8; DB 4; Length 1170;  
Best Local Similarity 56.8%; Pred. No. 2.1e-05;  
Matches 138; Conservative 0; Mismatches 102; Indels 3; Gaps 1;

QY 42 AAATATGATGAGATTCAGTAGAATCTATTAATTAATCAACGCTTACGATTTGAGTT 101  
DB 42 AAATATTTAAGAGATGTTAGATAGCGTTATCAATCAAACTTATACCTTAAGAAAT 101  
QY 102 CATATGTCATGATATATCAAGTAGAGGATTTTAAAGCAATCTTAAACAGATATTC 161  
DB 102 CATCTTGTATATATGATGATGACAGATGACATCACTCATATATGCAAAATATAC 161  
QY 162 AGTTGATATATATGATATTAATTTCTGCTTAATGAGAAATATTTGTTAGCATCAAG 221  
DB 162 CTTAAGATTAAGAAATATCTCTTT---TTGATAGAAAAATGGGGGTTTAAGTTCAAG 218  
QY 222 TTGAAACAAGCGGTGAATTTCTAAGGAGATATATTTTATGATGATGATGATGAT 281  
DB 219 TAGAAATATATGATATGATATATCTTTAGCGGGAATTAATTAATAAACAACCTCAAC 278  
QY 282 TAT 284  
DB 279 TAT 281

## RESULT 8

US-09-495-406-1  
Sequence 1, Application US/09495406

Patent No. 6503744  
GENERAL INFORMATION:  
APPLICANT: Gilbert, Michel  
APPLICANT: Wakarchuk, Warren W.  
APPLICANT: National Research Council of Canada  
TITLE OF INVENTION: Campylobacter Glycosyltransferases for Biosynthesis of  
FILE REFERENCE: 019633-000110US  
CURRENT APPLICATION NUMBER: US/09/495,406

CURRENT FILING DATE: 2000-01-31  
 PRIOR APPLICATION NUMBER: US 60/118,213  
 PRIOR FILING DATE: 1999-02-01  
 NUMBER OF SEQ ID NOS: 35  
 SOFTWARE: PatentIn Ver. 2.1  
 SEQ ID NO 1  
 LENGTH: 11474  
 TYPE: DNA  
 ORGANISM: Campylobacter jejuni  
 FEATURE:  
 OTHER INFORMATION: 11.5 kb PCR product from C. jejuni OH4384  
 OTHER INFORMATION: including LOS biosynthesis locus  
 US-09-495-406-1

Query Match 6.8%; Score 63.8; DB 4; Length 11474;  
 Best Local Similarity 56.8%; Pred. No. 3.1e-05;  
 Matches 138; Conservative 0; Mismatches 102; Indels 3; Gaps 1;

QY 42 AATTATGTGAGAGATTCAGTAGAATCTATATTAACCAACGCTTACGATTTGAGTT 101  
 DB AAAATATTTAAGAAATGTTAGTAGCCGTATCAATCAACTTAACTACTTAAAGAAAT 2886  
 QY 102 CATAATGTCTATGATATCAAGTAGAGGATTAAAGCAATTCCTTAACAGAAATATTC 161  
 DB 2887 CATCTTGTCATGATGATGAGCAAGATGAACACTCACTCAATATGCAAAAGAAATATAC 2946  
 QY 162 AGTTGTAGATTAATGAATTAATAATCTTGCTTAATGAAGAAATATTTGTTAGCATCAAG 221  
 DB 2947 CTAAAGATTAAGAAATTAATCTTT--TTGATTAAGAAATTAAGGGGTTTAAAGTTACAG 3003  
 QY 222 TTGAACAAGCGGTGAATAATTTCTAAGGAGAAATATTTTGAATGATGCTGATCA 281  
 DB 3004 TAGAAATTAAGGTATAGATTAATCTTAGCGGGGAAATTAATTAACCAAACTCAACA 3063  
 QY 282 TAT 284  
 DB 3064 TAT 3066

RESULT 9  
 US-09-134-000C-1681  
 Sequence 1681, Application US/09134000C  
 Patent No. 6617156  
 GENERAL INFORMATION:  
 APPLICANT: Lynn Doucette-Stamm et al  
 TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO  
 TITLE OF INVENTION: ENTEROCOCCUS FAECALIS FOR DIAGNOSTICS AND THERAPEUTICS  
 FILE REFERENCE: 032796-032  
 CURRENT APPLICATION NUMBER: US/09/134,000C  
 CURRENT FILING DATE: 1998-08-13  
 PRIOR APPLICATION NUMBER: US 60/055,778  
 PRIOR FILING DATE: 1997-08-15  
 NUMBER OF SEQ ID NOS: 6812  
 SOFTWARE: PatentIn version 3.1  
 SEQ ID NO 1681  
 LENGTH: 3171  
 TYPE: DNA  
 ORGANISM: Enterococcus faecalis  
 US-09-134-000C-1681

Query Match 6.8%; Score 63.4; DB 4; Length 3171;  
 Best Local Similarity 50.8%; Pred. No. 3.1e-05;  
 Matches 151; Conservative 0; Mismatches 146; Indels 0; Gaps 0;

QY 12 TATCATTAATGTGCTATATATGACCTTTAAATATGAGAGATTCAGTAGAATCTAT 71  
 DB 1698 TGTGCTGTGCTGTTTATATATGCGAAGAAAATGCTTCAGAGCTGCTCTCTCTTT 1757  
 QY 72 ATTAATCAAGCTTACTGATTTGAGTCTAATGTCATGATTAATCAAGTAGAGG 131  
 DB 1758 ACAAATCACTGATCAATGAATTTGGAGTATGTTAGAGATGATGATGCCAAGCGA 1817  
 QY 132 TGATTAAAGCAATCTTTAAGCAATATTCAGTTGATGATTAAGAAATTAATCTTGCT 191

DB 1818 ACATATTAAGCAATGCTAGAAATAATTAAGACTGATCAAGAACTAATTTATTA 1877  
 QY 192 TATGAAGAAATAATGTTAGTATGATCAAGTTGAAACCAAGCGGTGAATAATTTCTAAGG 251  
 DB 1878 TCGGAAAGAAACGACATATTTAGAGCAACTAATCAAGCTTTGTGATGTTGCTACTGG 1937  
 QY 252 AGAATATATTTTGAATGATGCTGATGATATTTCAATTCAGATGATGATTTGATTA 308  
 DB 1938 CGATTTATGTTTCAATGATTAAGATGATGATGATGATGATGATGATGATGATGATG 1994

RESULT 10  
 US-09-495-406-16  
 Sequence 16, Application US/09495406  
 Patent No. 6503744  
 GENERAL INFORMATION:  
 APPLICANT: Gilbert, Michel  
 APPLICANT: Wakarchuk, Warren W.  
 APPLICANT: National Research Council of Canada  
 TITLE OF INVENTION: Campylobacter Glycosyltransferases for Biosynthesis of  
 TITLE OF INVENTION: Gangliosides and Ganglioside Mimics  
 FILE REFERENCE: 019633-000110US  
 CURRENT APPLICATION NUMBER: US/09/495,406  
 CURRENT FILING DATE: 2000-01-31  
 PRIOR APPLICATION NUMBER: US 60/118,213  
 PRIOR FILING DATE: 1999-02-01  
 NUMBER OF SEQ ID NOS: 35  
 SOFTWARE: PatentIn Ver. 2.1  
 SEQ ID NO 16

QY 1818 ACATATTAAGCAATGCTAGAAATAATTAAGACTGATCAAGAACTAATTTATTA 1877  
 QY 192 TATGAAGAAATAATGTTAGTATGATCAAGTTGAAACCAAGCGGTGAATAATTTCTAAGG 251  
 DB 1878 TCGGAAAGAAACGACATATTTAGAGCAACTAATCAAGCTTTGTGATGTTGCTACTGG 1937  
 QY 252 AGAATATATTTTGAATGATGCTGATGATATTTCAATTCAGATGATGATTTGATTA 308  
 DB 1938 CGATTTATGTTTCAATGATTAAGATGATGATGATGATGATGATGATGATGATGATG 1994  
 RESULT 11  
 US-09-134-000C-1682  
 Sequence 1682, Application US/09134000C

Query Match 6.4%; Score 60.4; DB 4; Length 912;  
 Best Local Similarity 51.2%; Pred. No. 0.00011;  
 Matches 167; Conservative 0; Mismatches 186; Indels 3; Gaps 1;

QY 1 ATGAATTAATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 60  
 DB 1 ATGAATTAATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 60  
 QY 61 GTAGAAATCTATTAATTAATCAACGCTTACTGATTTGAGTCTAATGATGATGATGAT 120  
 DB 61 GTAGAAATCTATTAATTAATCAACGCTTACTGATTTGAGTCTAATGATGATGATGAT 117  
 QY 121 CCAGTAGAGGTGATTTAAGCAATTTCAACGATATTTCAAGTGTGATGATGATGAT 180  
 DB 118 TGTGTAATGATTAAGTAAGTAAGTAAGTAAGTAAGTAAGTAAGTAAGTAAGTAAGTA 177  
 QY 181 AAAATTTGCTTAATGAAGAAATAATGTTGATGATGATGATGATGATGATGATGATG 240  
 DB 178 AAAATTTGCTTAATGAAGAAATAATGTTGATGATGATGATGATGATGATGATGATG 237  
 QY 241 ATTTCAAGGAGAAATATTTTGAATGATGATGATGATGATGATGATGATGATGATGAT 300  
 DB 238 GTAGCAATTCACCTTATATCAATGTTTGAATGATGATGATGATGATGATGATGATG 297  
 QY 301 TTGATTAAGCAATTCCTTTTATGGA 326  
 DB 298 TCGAAGAAATGATTAATAATTTTGA 323

Patent No. 6617156  
GENERAL INFORMATION:  
APPLICANT: LYNN DOUNCETTE-STAMM ET AL  
TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO  
TITLE OF INVENTION: ENTEROCOCCUS FAECALIS FOR DIAGNOSTICS AND THERAPEUTICS  
FILE REFERENCE: 032796-032  
CURRENT APPLICATION NUMBER: US/09/134,000C  
PRIOR FILING DATE: 1998-08-13  
PRIOR APPLICATION NUMBER: US 60/055,778  
NUMBER OF SEQ ID NOS: 6812  
SOFTWARE: PatentIn version 3.1  
SEQ ID NO 1682  
LENGTH: 1602  
TYPE: DNA  
ORGANISM: Enterococcus faecalis  
US-09-134-000C-1682

Query Match 6.3%; Score 58.8; DB 4; Length 1602;  
Best Local Similarity 49.1%; Pred. No. 0.00027;  
Matches 156; Conservative 0; Mismatches 162; Indels 0; Gaps 0;

QY 19 ATGCGGTATATATAGAGCTTTAAATATATGAGATTCAGTAACTATATATAT 78  
DB 595 ATGCCAGTATATATGTTGAGAAAATGCGTTGCGTTGATGATTTGAT 654  
QY 79 CAACGCTTACTGATTTGATTCATATTCATTTGATTCATTCAGTAGGATTTA 138  
DB 655 CAAGCTATATCTACTGAGGAATATATGATGAGCGCTCAACAGATCTATGTC 714  
QY 139 AAGCAATCTTATACAGATATTCAGTGTAGATATATATATATATATCTTCTTATGA 198  
DB 715 AAAAATTTTAAACAGATACCAAGCATTCGATGAGGATTCGCTCTTCTGTA 774  
QY 199 GAAATATTTGTTTACATCAAGTTGAACAAAGCGGTGAAAATTTCTTAAAGGAGATAT 258  
DB 775 CAAAATGTCATATTTCCAGACCAACCTGCTTTGCGATTCGACGAGAAATTT 834  
QY 259 ATTTTGAATGATCTGATATATTTGATTCAGATATGATTAAGCAATTCGT 318  
DB 835 GTGCGCTTCTAGACACATATGATTAAGCATCAATGCTTTTATGAGATGTTAA 894  
QY 319 TTTATGAGAGAAATTTCA 336  
DB 895 GTGCTGATGAGAAACCCA 912

RESULT 12  
US-08-961-527-155/c  
Sequence 155, Application US/08961527  
Patent No. 6420135

GENERAL INFORMATION:  
APPLICANT: Charles Kunsch  
TITLE OF INVENTION: Streptococcus pneumoniae Polynucleotides and Sequences  
NUMBER OF SEQUENCES: 391

CORRESPONDENCE ADDRESS:  
ADDRESS: Human Genome Sciences, Inc.  
STREET: 9410 Key West Avenue  
CITY: Rockville  
STATE: Maryland  
COUNTRY: USA

ZIP: 20850

COMPUTER READABLE FORM:  
MEDIUM TYPE: Diskette, 3.50 inch, 1.4mb storage

COMPUTER: HP Vectra 486/33

OPERATING SYSTEM: MSDOS version 6.2

SOFTWARE: ASCII Text

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/961,527

FILING DATE:

CLASSIFICATION: 424

PRIOR APPLICATION DATA:

APPLICATION NUMBER:

FILING DATE:  
ATTORNEY/AGENT INFORMATION:  
NAME: Brookes, A. Anders  
REGISTRATION NUMBER: 36,373  
REFERENCE/DOCKET NUMBER: PB340P1  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (301) 309-8504  
TELEFAX: (301) 309-8512  
INFORMATION FOR SEQ ID NO: 155:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 6474 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: double  
TOPOLOGY: linear  
US-08-961-527-155

Query Match 6.2%; Score 58.6; DB 4; Length 6474;  
Best Local Similarity 45.2%; Pred. No. 0.00039;  
Matches 303; Conservative 0; Mismatches 359; Indels 9; Gaps 2;

QY 44 ATATGTGAGAGATTCAGTGAATCTATATTAATCAACGCTTACTGATTTGAGTTCA 103  
DB 5378 AATCTCGATTAGAGCTGTGAAAAGTTGTTTACATCAAACTTAAAAATGGAAGTTA 5319  
QY 104 TAATGTCAATTGATTAATCAAGTAGAGGATTTTAAAGCAATTCCTTACAGATAT 160  
DB 5318 TAATTTATGATGATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTA 5259  
QY 161 CAGTTGATATATAGATTAATTAATTTCTGTTATATGAGAAATATGTTTATGATCA 220  
DB 5258 GCTATACCATATAGATTAATTAATTTATTAATTAATTAATTAATTAATTAATTAAT 5199  
QY 221 GTTTGACAAAGGAGTAAATTTCTTAAAGGAGATATATTTTAAAGATGATGATG 280  
DB 5198 CCAGAACATATGATTAATTAATTTCTTAAAGGAGATATATTTTAAAGATGATG 5139  
QY 281 ATATTTGATATCAAGTATTTGATTAAGCAATTCGTTTATGAGGAAATTCATTTG 340  
DB 5138 ATGAAATATATGAGATTAATTAATTTTAAAGTATGATGCTTTTAAAGATGATGA 5079  
QY 341 ATTTCTGAGCACTTATATGATTAATTAATTAATTAATTAATTAATTAATTAATTAAT 5078  
DB 5078 AGAATTTAGC-----TTTATGTTTATGTTTATGATTAATTAATTAATTAATTAAT 5025  
QY 401 GAGAAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAAT 460  
DB 5024 GAGAAAG 4965  
QY 461 TACTTCCCAACCAAGTGTGCTTAAAGAAAGTTTCCATTAATTAATTAATTAATTA 520  
DB 4964 TAGCAGGTACGTCAATTTGTTGTTGTTTAAAGAGGCTTAAATTAATTAATTAAT 4905  
QY 521 GAGATTTAGTACCTGTTGAGATTAATTAATTTGCAATTAAGAGAGCTGCTGATTTCA 580  
DB 4904 AGAAATATGATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAAT 4845  
QY 581 AATTCGCTTATCTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAAT 640  
DB 4844 AATTTGATATAGTCCGAGATTTCTTGTGATTAATTAATTAATTAATTAATTAAT 4785  
QY 641 AAACCAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTA 700  
DB 4784 TCACTGAGTACCAAAACAAATTAATTAATTAATTAATTAATTAATTAATTAATTA 4725  
QY 701 AATCTTATAT 711  
DB 4724 AATATTTTAA 4714

RESULT 13

US-08-487-826B-13/c

Sequence 13, Application US/08487826B

Patent No. 5993827

GENERAL INFORMATION:  
 APPLICANT: Sim, Kim L.  
 APPLICANT: Chitnis, Chetan  
 APPLICANT: Miller, Louis H.  
 APPLICANT: Peterson, David S.  
 APPLICANT: Su, Xin-zhaun  
 APPLICANT: Wellens, Thomas E.  
 TITLE OF INVENTION: BINDING DOMAINS FROM PLASMODIUM VIVAX  
 NUMBER OF INVENTION: AND PLASMODIUM FALCIPARUM ERYTHROCYTE BINDING PROTEINS  
 NUMBER OF SEQUENCES: 45  
 CORRESPONDENCE ADDRESS:  
 ADDRESS: Knodde Martens Olson & Bear  
 STREET: 620 Newport Center Drive 16th Floor  
 CITY: Newport Beach  
 STATE: California  
 COUNTRY: US  
 ZIP: 92660  
 COMPUTER READABLE FORM:  
 MEDIUM TYPE: Floppy disk  
 COMPUTER: IBM PC compatible  
 OPERATING SYSTEM: PC-DOS/MS-DOS  
 SOFTWARE: Patent Release #1.0, Version #1.25  
 CURRENT APPLICATION DATA:  
 APPLICATION NUMBER: US/08/487,826B  
 FILING DATE: 10-SEP-1993  
 CLASSIFICATION: 435  
 ATTORNEY/AGENT INFORMATION:  
 NAME: Israelien, Ned  
 REGISTRATION NUMBER: 29,655  
 REFERENCE/DOCKET NUMBER: NIH121.001CP1  
 TELECOMMUNICATION INFORMATION:  
 TELEPHONE: (619) 235-8550  
 TELEFAX: (619) 235-0176  
 INFORMATION FOR SEQ ID NO: 13:  
 SEQUENCE CHARACTERISTICS:  
 LENGTH: 19124 base pairs  
 TYPE: nucleic acid  
 STRANDEDNESS: single  
 TOPOLOGY: linear  
 MOLECULE TYPE: CDNA  
 HYPOTHEICAL: NO  
 ANTI-SENSE: NO  
 US-08-487-826B-13

Query Match 6.0%; Score 56.6; DB 2; Length 19124;  
 Best Local Similarity 43.6%; Pred. No. 0.0013;  
 Matches 363; Conservative 0; Mismatches 459; Indels 11; Gaps 2;

QY 11 GTATCATATGTCGGTATATTAATGAGCCTTAAATTATGAGAGATTCAGTAGAATCTA 70  
 DB 18461 GTTAATATATATTAATTAATCAATGTTTAAATCGTATTAATCATTTATATAAT 18402

QY 71 TATTAATCAACAGCTTACTGATTTTGATTCATATGTGATGATTAATCCAGTAGAG 130  
 DB 18401 AAGTGAAGCTATGTTTATATTTTATTAATTAATTAATTTTATTTT 18342

QY 131 GTGATTTAAGCAATCTTAACAGATATTCAGTTGATGATTAATTAATTAATCTTGC 190  
 DB 18341 TTTTGTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 18282

QY 131 TTAATGAAGAAATTTGTTTGAAGTCAAGTTGACAAAGCGGTGAATTTCTAAG 250  
 DB 18281 GAAATTAAGAAATTAAGTAAATTAATTAATTAATTAATTAATTAATTAATTAAT 18222

QY 251 GAGATATATTTTGAATGATGCTGATGATTTTCTATATCAAGTAGAT---TTGAT 306  
 DB 18221 CAAGAAATATATGAT 18162

QY 307 AAGCAATTCGTTTATGAGAAATTCATGATTTCTAGCACTTAATGATG 366  
 DB 18161 TTATTAATTAATTTTATATGAGATTAATTAATTTTTCGCTCGGATTAATCGAAAT 18102

QY 367 ATAGACCAAAAGAAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAAT 426

DB 18101 GAGTAACAAAATTAATAACACATATATTAATAACACATATATTAATTAATTAAT 18042

QY 427 AATGATATACGAATATGTTATGATATGATCTATCTTGGCCACCCAGCTGGCGCTA 486

DB 18041 ATTATTAATATACGAATATTAATTAATTAATTAATTAATTAATTAATTAATTAAT 17989

QY 487 AAAAAAGATTTTGCATTAATGATTAATGGAATATAGATTTAGTACCTGTTGAAGATTA 546

DB 17988 AATCGAAATATAGAAATATATATATTAATTAATTAATTAATTAATTAATTAATTA 17929

QY 547 GATTTTGCATTAAGGAGCTGCTGCTATTTCCAAATCCGCTTACTCAATTAATGACT 606

DB 17928 TATATTACGAAAAATGACAGAAAAACAAATACCAATATATATATATTAATTA 17869

QY 607 TTACAGTATAGATTAACGAAATGATATATCAACAAACCAATTAAGTTAAGCAATATAT 666

DB 17868 ATCAATATAGATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTA 17809

QY 667 TACTGCTATTTTCAAGATTTTATTAAGAAAAATCTTATATGATATCAAAAAAT 726

DB 17808 ATGAAAAAATTAACCAATTAAGAAAAAATCAATGTTGCAATTAATTAATTAAT 17749

QY 727 ACTAATTAATTTCAAGATATGATTAAGAAAAACCTATTAATCAAGAGCTCTAA 786

DB 17748 ATATATATGATTTATTAACAAAAATTTTATTAATTAATTAATTAATTAATTAAT 17689

QY 787 TATTTGAGCTAAATCTAACCCCTGATTAATTAATTAAGAAAACTATATTTG 839

DB 17688 AATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAAT 17636

RESULT 14  
 US-08-487-826B-13  
 Sequence 13, Application US/08487826B  
 Patent No. 5993827  
 GENERAL INFORMATION:  
 APPLICANT: Sim, Kim L.  
 APPLICANT: Chitnis, Chetan  
 APPLICANT: Miller, Louis H.  
 APPLICANT: Peterson, David S.  
 APPLICANT: Su, Xin-zhaun  
 APPLICANT: Wellens, Thomas E.  
 TITLE OF INVENTION: BINDING DOMAINS FROM PLASMODIUM VIVAX  
 NUMBER OF INVENTION: AND PLASMODIUM FALCIPARUM ERYTHROCYTE BINDING PROTEINS  
 NUMBER OF SEQUENCES: 45  
 CORRESPONDENCE ADDRESS:  
 ADDRESS: Knodde Martens Olson & Bear  
 STREET: 620 Newport Center Drive 16th Floor  
 CITY: Newport Beach  
 STATE: California  
 COUNTRY: US  
 ZIP: 92660  
 COMPUTER READABLE FORM:  
 MEDIUM TYPE: Floppy disk  
 COMPUTER: IBM PC compatible  
 OPERATING SYSTEM: PC-DOS/MS-DOS  
 SOFTWARE: Patent Release #1.0, Version #1.25  
 CURRENT APPLICATION DATA:  
 APPLICATION NUMBER: US/08/487,826B  
 FILING DATE: 10-SEP-1993  
 CLASSIFICATION: 435  
 ATTORNEY/AGENT INFORMATION:  
 NAME: Israelien, Ned  
 REGISTRATION NUMBER: 29,655  
 REFERENCE/DOCKET NUMBER: NIH121.001CP1  
 TELECOMMUNICATION INFORMATION:  
 TELEPHONE: (619) 235-8550  
 TELEFAX: (619) 235-0176  
 INFORMATION FOR SEQ ID NO: 13:  
 SEQUENCE CHARACTERISTICS:  
 LENGTH: 19124 base pairs  
 TYPE: nucleic acid





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Page 10

Db	343	TACCTTCACAAATTTATTTTATTTATGACGATGATATTTCTATTTAAATAGCTACCC	28
Qy	400	CGAGAAAGTAAATTAATATCTTAACTAATGATATAGGAAAGATTATGATATGATCT	459
Db	289	TTATTTGGATATATCTACCTACTAATAATTTACCTA-ATAATATATATTTAAGAATCTT	231
Qy	460	ATACTTGCCACCCACAGCTGTCGCTGAAATTAAGAAAGTTTCGATTAAGTTATGCGAAT	519
Db	230	AAATCTAATATTTATTTATCTTAAGATATTAATTAATTAATCTTTTATTTATTTT	171
Qy	520	AGAGATTTAGTACCTGTTGAAGATTATGATTTTGCATTAAGAGAGCTGCGCTGATTC	579
Db	170	AAATTTATTTATTTATTTGTAATTTATTTATTTATTTATTTATTTAACTAATTTTTTGGATAT	111
Qy	580	AAATGCGGCTACTCATATAAGACTTTACAGTATAGTTAAACGA	626
Db	110	AAATATCATTTATTAATGGTAAATTATTTATTTAATATTAATTAATCTTTAATGA	64

Search completed: March 28, 2004, 07:33:01  
Job time : 119 secs